
Sequence Listing was accepted with existing errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: Wed Jun 06 11:19:02 EDT 2007

Validated By CRFValidator v 1.0.2

Application No: 10524643 Version No: 2.0

Input Set:

Output Set:

Started: 2007-06-05 17:49:44.046 **Finished:** 2007-06-05 17:49:44.626

Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 580 ms

Total Warnings: 8
Total Errors: 1

No. of SeqIDs Defined: 12

Actual SeqID Count: 12

Err	or code	Error Description	
E	257	Invalid sequence data feature in <221> in SEQ ID (1	_)
W	213	Artificial or Unknown found in <213> in SEQ ID (5)	
W	213	Artificial or Unknown found in <213> in SEQ ID (6)	
W	213	Artificial or Unknown found in <213> in SEQ ID (7)	
W	213	Artificial or Unknown found in <213> in SEQ ID (8)	
W	213	Artificial or Unknown found in <213> in SEQ ID (9)	
W	213	Artificial or Unknown found in <213> in SEQ ID (10)	
W	213	Artificial or Unknown found in <213> in SEQ ID (11)	
W	213	Artificial or Unknown found in <213> in SEQ ID (12)	

SEQUENCE LISTING

<110>	Bavarian	Nordic	A/S								
<120>	Vaccinia avipoxvii		ost ra	inge ge	nes t	o ind	creas	se the	tite	r of	
<130>	BN48PCT										
<140>	10524643										
<141>	2005-02-3	10									
<150>	US 10/5	524,043									
<151>	2003-0	7-29									
<150>	DK PA 200	02 01189)								
<151>	2002-09-0	08									
<160>	12										
<170>	PatentIn	version	3.3								
<210>	1										
<211>	615										
<212>	DNA										
<213>	MVA										
<220>											
<221>	estimated	d promot	er sec	nence	for C	'7T. ir	n MVZ	4			
	(1)(162	_		[40.1100				-			
<220>											
<221>	CDS										
<222>	(163)(6	615)									
<400>	1										
attaata	aac tttaa	agacat <u>c</u>	rtgtgtt	ata ct	aagat	.ggt t	tggct	tattc	cataç	gtagct	60
tgtggaa	attt ataaa	acttat ç	gatagta	aaa ct	agtac	cca a	atato	gtaaag	atgaa	aaagt	120
aaattad	ctat taacq	geegte <u>c</u>	gtatto	gtt ca	tccat	tca q	_	g ggt et Gly		-	174
							_				
cac gaa	a ttc gac	atc att	att a	at gga	gat	atc q	gcg t	tg aga	aat	tta	222
His Glu	Phe Asp	Ile Ile	lle A	sn Gly	Asp	Ile A	Ala I	Leu Arg	s Asn	Leu	
5		10				15				20	
cag tta	a cat aaa	ggg gat	aac t	ac gga	tgc	aaa d	cta a	aaa att	att	tcg	270
_	His Lys				_					_	
		25			30				35		
aat gat	tac aag	aaa tta	ı aag t	tt aga	ttc	att a	ata d	cgc cca	ı gat	tgg	318
_	Tyr Lys		_	=				_	=		
	40			45				50			

Ser Glu Ile	gac gag Asp Glu	_				_		-				366
gcg gtg aaa Ala Val Lys 70	-		-	_	_				-			414
gag gct gta Glu Ala Val 85		-							_			462
tct gat gat Ser Asp Asp		Glu Le									-	510
cta aat atg Leu Asn Met	=				_		_	-				558
tcc ccg tat Ser Pro Tyr 135	_	·			_		_	-				606
atg gat taa Met Asp 150												615
<210> 2 <211> 150 <212> PRT <213> MVA												
<211> 150 <212> PRT												
<211> 150 <212> PRT <213> MVA	Gln His 5	Glu Phe	: Asp	Ile	Ile 10	Ile	Asn	Gly	Asp	Ile 15	Ala	
<211> 150 <212> PRT <213> MVA <400> 2 Met Gly Ile	5				10					15		
<211> 150 <212> PRT <213> MVA <400> 2 Met Gly Ile 1	5 Leu Gln 20	Leu Hi:	Lys	Gly 25	10 Asp	Asn	Tyr	Gly	Cys 30	15 Lys	Leu	
<211> 150 <212> PRT <213> MVA <400> 2 Met Gly Ile 1 Leu Arg Asn Lys Ile Ile	5 Leu Gln 20 Ser Asn	Leu Hi:	Lys Lys 40	Gly 25 Lys	10 Asp	Asn Lys	Tyr Phe	Gly Arg 45	Cys 30	15 Lys Ile	Leu Ile	

Tyr Val Ile Tyr Glu Ala Val Ile His Leu Tyr Asn Lys Lys Thr Glu

90 95

Ile Leu Ile Tyr Ser Asp Asp Glu Asn Glu Leu Phe Lys His Tyr Tyr
100 105 110

Pro Tyr Ile Ser Leu Asn Met Ile Ser Lys Lys Tyr Lys Val Lys Glu 115 120 125

Glu Asn Tyr Ser Ser Pro Tyr Ile Glu His Pro Leu Ile Pro Tyr Arg 130 135 140

Asp Tyr Glu Ser Met Asp 145 150

<210> 3

<211> 1001

<212> DNA

<213> Canarypoxvirus

<400> 3

atactattct tcacggtaca tttaaaaaaaa ggaatatagt cagaaacagg aaatatactt 60 tcactataac atggtctaat ttcgaatgtc cgacgttagg agacgttaag tcttcttcac 120 ctaatacctg taatagagta gttttagacg gtagtagata cgttacaaaa acctttaatg 180 atacaatata aatggaacta actagagaaa cgctgatatt tgtaggcatt actgtactag 240 300 tagtagtaat gatcatatct ggtttctcac taatattgcg attgatacct ggtgtatatt catcagttat tagatcgtcg ttcgtaggag ggaaaatatt aagatttatg gaggtattct ctactgttat gtttatacca tcattagtaa tactttatac agcatatata aggaaatcta 420 aagtgaaaaa taactaaata ttatagtatt tgtaataaat ggctactgga gagattcgtc 480 ttattatagg gcctatgttt tcaggtaaaa caacagaatt agttagatta ataagaagat 540 600 ttatgatatc gggacgtaaa tgtataataa taaaacattg tagtgattcc cgttataccg aaggagattt agaagctata tatactcatg ataaaatttc gatggaagca ctatcgtgta 660 gcaaattatt acctttaata cctaaaattg ataactttga agtaataggt atagacgaag 720 780 gacagttttt tgaagatata gtagaattta gtgagattat ggctaataag ggtaaaactg 840 taatcatagc ggctttaaat ggagatttca aacgacaatt atttggaaac atatttaaac tattatcttt atcagaatca gttactagtt taactgctat ttgtgcagtt tgtaaaaacg 900 960 aagcatcttt ttctaagcgc atgactgatg ataaagatgt aaaagttata ggaggtaaag

22

<210>	4						
<211>	1003	3					
<212>	DNA						
<213>	Cana	arypoxvirus					
<400>	4						
taatata	acgt	actaaatact	tgtacgtaca	actatgttag	aataatttgc	ttagtatagt	60
atataaa	acaa	gtatgtaaaa	aataaaattg	atataaaagt	agtcttctat	tccgaacaat	120
aactata	acaa	aatggattta	gatattaaat	cttgcagaag	tatttacaaa	atatgggata	180
aatatca	attt	tatgacaggg	tataaatata	aaaatgataa	acagagattt	aaaattacaa	240
tttacto	gtaa	atgtgattgt	tctatcaaag	aatatcctta	tagatttgtt	actgagaaac	300
tgctttt	taat	gtatattatt	aataagttta	gaggaaagta	tctaatcaaa	attaggatag	360
aacccat	tagt	taaaaattaa	atcatatatc	aatacatgtc	agtttttat	cgaaaaatgg	420
atttata	aaat	aaaatgaaaa	ataacttgaa	tgaaggaaaa	aataaccatg	agtaaaaaac	480
cagtaaa	agac	ggtccagcgt	agacgtggaa	acgatgagga	taataagttt	acttgtatcc	540
aagcgct	taga	acatgcaaaa	agcttatgta	ctaaaaataa	taaaatagtt	aaatctgtta	600
aactato	caca	atctctcttt	aagtcatcta	acaatatttc	tgtgatatta	gaaccagaat	660
ataaaga	acaa	attagtgact	cctcttatta	ttgtagaagg	tgaaggaaaa	atataccata	720
ataagaa	atga	tagttttaat	cgtgaagaac	cgtattttct	aaaaatacga	cctacgttaa	780
tgaatco	ctat	attatatcag	attatggaat	gcatttatag	agatctcaat	tatttggatc	840
ccgagaa	atac	gatggatgaa	aaaacattta	aagattgtca	tctgtatatt	aacggaaata	900
ggattat	tgtc	cgccgacgta	aaatatttga	agaatggtaa	acctgtagga	gaaaaattat	960
ccgtato	ccaa	ggaaatagat	aaactggtta	aaaaagatcc	aca		1003
<210>	5						
<211>	22						
<212>	DNA						

<213> artificial sequence

<220>

<223> Primer 487

<400> 5

agcggcttta aatggagatt tc

<211>	22	
<212>	DNA	
<213>	artificial sequence	
<220>		
	Primer 488	
<400>	6	
	gttc ggaatagaag ac	22
gccacc	geee ggaatagaag ac	22
<210>	7	
<211>		
<212>		
<∠13>	artificial sequence	
.000		
<220>		
<223>	Primer 504	
<400>		
ttactt	gtac agctcgtcca tgc	23
<210>		
<211>	22	
	DNA	
<213>	artificial sequence	
<220>		
<223>	Primer 505	
<400>	8	
atggga	tcgg ccattgaaca ag	22
<210>	9	
<211>	18	
<212>	DNA	
<213>	artificial sequence	
<220>		
<223>	Primer 506	
<400>	9	
ggcggc	ggtc acgaactc	18
<210>	10	
<211>	21	
<212>		
	artificial sequence	
	-	
<220>		
	Primer 498	
<400>	10	
	cato dagticataat o	21

```
<210> 11
<211> 26
<212> DNA
<213> artificial sequence
<220>
<223> Primer 496
<400> 11
tatacagcac gaattcgaca tcatta
                                                                    26
<210> 12
<211> 23
<212> DNA
<213> artificial sequence
<220>
<223> Primer 497
<400> 12
ctatacggga ttaacggatg ttc
                                                                    23
```